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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/895,278	06/29/2001	Mark Anders	10559-403001 / P10340	7194		
20985	7590 09/09/2003					
	ICHARDSON, PC		EXAMINER FARAHANI, DANA			
SUITE 500						
SAN DIEC	6O, CA 92122		ART UNIT	PAPER NUMBER		
			2814	,		
			DATE MAILED: 09/09/2003	DATE MAILED: 09/09/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

				M				
	Application	No.	Applicant(s)					
	09/895,278	3	ANDERS ET AL.					
Office Action Summary	Examiner		Art Unit					
•	Dana Fara	hani	2814					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1)⊠ Responsive to communication(s) filed on <u>11 J</u>	<u>lune 2003</u> .							
2a)☐ This action is <b>FINAL</b> . 2b)⊠ Thi	is action is r	on-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-17</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.								
· · ·								
Priority under 35 U.S.C. §§ 119 and 120	nriority unc	lor 35 I I S C & 119/a	)-(d) or (f)					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)			y (PTO-413) Paper No Patent Application (PT					

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wada et al., hereinafter Wada (U.S. 6,225,846) in view of Fujita et al., hereinafter Fujita (U.S. 6,215,159), all previously cited.

Regarding claim 1, Wada discloses in figure 1 an input gate L6 including an input transistor P3 having an input node and an output node.

Wada dose not disclose two or more clocked input gates.

Fujita teaches that pluralities of clock signals are applied to the transistors shown in figure 5A. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use clock signals to the gate of the transistor in Wada's invention, since it is known in the art that clock signals are used to operate MOS transistors in order to control the desired voltage at their output according to a time interval (note that the statement in claim 1 "input gates operative to place..." is functional, and thus given no patentable weight).

Regarding claim 2, Wada discloses in figure 1 the transistors include a PMOS transistor P3 coupled to E3 and an NMOS transistor N4 coupled to Vss, the input transistor N3 being connected between said PMOS and NMOS transistors.



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3. Claims 3-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wada in view of Fujita as applied to claim 1 above, and further in view of Rossi et al., hereinafter Rossi, previously cited (U.S. 6,069,513).

Regarding claims 3 and 4, Wada discloses in figure 1 an intermediate node coupled to one of a source and a drain of the input transistor N3; and an output inverter 2 having an output coupled to the output node and an input coupled to the intermediate node.

Wada dose not disclose a first transistor having a gate coupled to the input node and one of a source and a drain connected to the intermediate node; and a second transistor connected in series with the first transistor, said second transistor having one of a source and a drain connected to a voltage supply.

Rossi discloses in figure 6 a first transistor M4 having a gate coupled to the input node T and one of a source and a drain connected to an intermediate node B; and a second transistor M3 connected in series with the first transistor, the second transistor having one of a source and a drain connected to a voltage supply vdd. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include these transistors in Wada's invention in order to have a pull up transistor at the intermediate node.

Regarding claims 5-10, Wada discloses a feedback inverter 2 where the input of the inverter connected to the intermediate node and an output coupled to a gate of the second transistor P3.



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4. Claims 11-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wada and Fujita in view of Rossi and further in view of Gillingham et al., hereinafter Gillingham (U.S. Patent 6,510,503).

Wada and Fujita in view of Rossi disclose the limitations in the claims, as discussed above, except for a dynamic bus.

Gillingham teaches at column 7, lines 12-22, that using a repeater on a main bus creates a sub-bus on the main bus, and therefore, increases the latency of the device as a whole. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the repeater in a dynamic bus, as Gillingham teaches, in order to make the connection between the drivers and the flip flops, while create a sub-bus on the dynamic bus.

### Response to Arguments

5. Applicant's arguments filed on 6/11/03 have been fully considered but they are not persuasive.

In response to applicant's argument that a noise margin of Vcc/2 is not disclosed by any of the references, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re* 

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Otto, 136 USPQ 458, 459 (CCPA 1963). Note that a noise margin of Vcc/2 is not considered a limitation, since Vcc could be any voltage.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Farahani whose telephone number is (703)305-1914. The examiner can normally be reached on M-F 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (703)308-4918. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7722 for regular and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

Dana Farahani September 5, 2003

LONG PHAM EXAMINER